A55BM-E

CPU

AMD Socket FM2+ Athlon™/A- Series Processors
Supports CPU up to 4 cores
Supports AMD® Turbo Core 3.0 Technology
* Refer to www.asus.com for CPU support list

Chipset

AMD A55 FCH (Hudson D2)

Memory

2 x DIMM, Max. 32GB, DDR3 2400(O.C.)/2133/1866/1600/1333 MHz Non-ECC, Un-buffered Memory
Dual Channel Memory Architecture
Support AMD Memory Profile (AMP) memory
* The Max. 32GB memory capacity can be supported with DIMMs of 16GB (or above). ASUS will update QVL once the DIMMs are available on the market.
* Hyper DIMM support is subject to the physical characteristics of individual CPUs.
* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).
* Due to OS limitation, when installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Install a 64-bit Windows® OS when you want to install 4GB or more memory on the motherboard.

Graphic

Integrated AMD Radeon™ R/HD8000/HD7000 Series Graphics in the A-Series APU
Multi-VGA output support : DVI/RGB ports
- Supports DVI with max. resolution 2560 x 1600 @ 60 Hz
- Supports RGB with max. resolution 1920 x 1600 @ 60 Hz
Maximum shared memory of 2048 MB
AMD® Dual Graphics technology support *1

Expansion Slots

1 x PCIe 3.0/2.0 x16 *2
1 x PCIe 2.0 x1
1 x PCI

Storage

AMD A55 FCH (Hudson D2) chipset :
6 x SATA 3Gb/s port(s), dark brown
Support Raid 0, 1, 10, JBOD

LAN

Realtek® 8111G, 1 x Gigabit LAN Controller(s)

Audio

Realtek® ALC887-VD 8-Channel High Definition Audio CODEC *3
- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking

USB Ports

AMD A55 FCH (Hudson D2) chipset :
8 x USB 2.0/1.1 port(s) (4 at back panel, black, 4 at mid-board)

Special Features

ASUS 5X Protection :
- ASUS DIGI+ VRM - 3 + 1 Phase digital power design
- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
- ASUS ESD Guards - Enhanced ESD protection
- ASUS High-Quality 5K-Hour Solid Capacitors - 2.5x long lifespan with excellent durability
- ASUS Stainless Steel Back I/O - 3x more durable corrosion-resistant coating

ASUS EPU :
- EPU

ASUS Exclusive Features :
- AI Suite 3
- Ai Charger
- Anti-Surge
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface
- Network iControl
- Disk Unlocker

ASUS Quiet Thermal Solution :
- Stylish Fanless Design Heat-sink solution
- ASUS Fan Xpert

ASUS EZ DIY :
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS MyLogo 2

ASUS Q-Design :
- ASUS Q-Slot

Operating System Support

Windows® 8.1 , 32bit/64bit
Windows® 8 , 32bit/64bit
Windows® 7 , 32bit/64bit
Windows® Vista , 32bit/64bit
Windows® XP , 32bit

Back I/O Ports

1 x PS/2 keyboard (purple)
1 x PS/2 mouse (green)
1 x DVI
1 x D-Sub
1 x LAN (RJ45) port(s)
4 x USB 2.0
3 x Audio jack(s)

Internal I/O Ports

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
1 x COM port(s) connector(s)
6 x SATA 3Gb/s connector(s)
1 x CPU Fan connector(s)
1 x Chassis Fan connector(s)
1 x S/PDIF out header(s)
1 x 24-pin EATX Power connector(s)
1 x 4-pin ATX 12V Power connector(s)
1 x parallel port connector(s)
1 x Front panel audio connector(s) (AAFP)
1 x Internal speaker connector(s)
1 x System panel(s)

Accessories

User's manual
I/O Shield
2 x SATA 3Gb/s cable(s)

BIOS

64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.7, ACPI 4.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified log, F12 PrintScreen, F3 Shortcut functions and ASUS DRAM SPD (Serial Presence Detect) memory information

Support Disc

Drivers
ASUS utilities

ASUS Update
Anti-virus software (OEM version)

Form Factor

mATX Form Factor
9.1 inch x 7.2 inch (23.1 cm x 18.3 cm)

Note

*1: Refer to http://www.amd.com/us/products/technologies/dual-graphics/Pages/dual-graphics.aspx#3 for the discrete GPUs which support Dual Graphics technology.
*2: Only FM2+ Processors can support PCIe3.0.
*3: Use a chassis with HD audio module in the front panel to support an 8-channel audio output.